

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: SCHLESSINGER, Joseph et al.

Title: CRYSTAL STRUCTURES OF DOMAINS OF RECEPTOR PROTEIN  
TYROSINE KINASES AND THEIR LIGANDS

Appl. No.: 10/049,429

Filing Date: February 12, 2002

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**Commissioner for Patents  
Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:

Submitted herewith on Form PTO-1449 is a listing of a documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 C.F.R. 1.56. Copies of each listed document is being submitted to comply with the provisions of 37 C.F.R. 1.97 and 1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609. The documents listed on the enclosed 1449 were cited in the International Search Report issued for related application PCT/US00/23744. A copy of the Search Report is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Date 3/21/02

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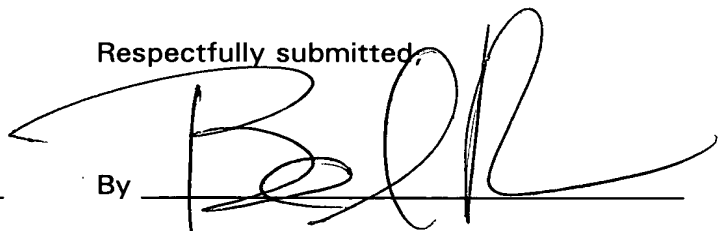


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PATENT TRADEMARK OFFICE

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Respectfully submitted,

By 

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Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 038602-1306		SERIAL NO. 10/049,429	
<b>INFORMATION DISCLOSURE CITATION</b>  <i>(Use several sheets if necessary)</i>				APPLICANT SCHLESSINGER, Joseph et al.			
				FILING DATE February 12, 2002		GROUP ART UNIT Unassigned	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES    NO
	A1	98/07835	02/26/1998	WIPO			
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	A2	PELLEGRINI et al., "The Role of Heparin in the Complex Formation Between Fibroblast Growth Factor 2 and Its High Affinity Receptor: Comparative Modeling and Biochemical Studies", Biochemical Society Transactions, 1998, pp. 545-549, Vol. 26, No. 3					
	A3	HUHTALA et al., "A Dimeric Ternary Complex of FGFR1, Heparin and FGF-1 Leads to an 'Electrostatic Sandwich' Model for Heparin Binding", Structure London, 1999, pp. 699-709, Vol. 7, No. 6					
	A4	GIVOL et al., "Complexity of FGF receptors: Genetic Basis for Structural Diversity and Functional Specificity", FASEB, 1992, pp. 3362-3369, Vol. 6, No. 15					
	A5	LIEKENS et al., "Modulation of Fibroblast Growth Factor-2 Receptor Binding, Signaling, and Mitogenic Activity by Heparin-Mimicking Polysulfonated Compounds", Molecular Pharmacology, 1999, pp. 204-213					
	A6	PLOTNIKOV et al., "Structural Basis for FGF Receptor Dimerization and Activation", Cell, 1999, pp. 641-650, Vol. 98, No. 5					
	A7	PLOTNIKOV et al., "Crystal Structures of Two FGF-FGFR Complexes Reveal the Determinants of Ligand-Receptor Specificity", Cell, 2000, pp. 413-424, Vol. 101, No. 4					
	A8	PELLEGRINI et al., "Crystal Structure of Fibroblast Growth Factor Receptor Ectodomain Bound to Ligand and Heparin", Nature, 2000, pp. 1029-1034, Vol. 407, No. 6807					
	A9	STAUBER et al., "Structural Interactions of Fibroblast Growth Factor Receptor with its Ligands", Proceedings Of the National Academy of Sciences of the United States, 2000, pp. 49-54, Vol. 97, No. 1					
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
<p>* <b>EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.</p>							